#### **SECTION K**

USER SERVICE ANALYSIS

TRANSPORTATION PROBLEMS: Congestion on arterials / collectors (through multiple jurisdictions)			
USER SERVICE	VERY	SOMEWHAT APPLICABLE	<b>NOT</b> APPLICABLE
Pre-Trip Travel Information	S		
En-Route Travel Information	S		
Route Guidance	S		
Ride Matching and Reservation	S		
Traveler Services Information		S	
Traffic Control	S		
Incident Management	S		
Travel Demand Management	S		
Public Transportation Management		M	
En-Route Transit Information		M	
Personalized Public Transit		M	
Public Travel Security		M	
Electronic Payment Services		M	
Commercial Vehicle Electronic Clearance	<u> </u>	M	
Automated Roadside Safety Inspection		M	
Onboard Safety Monitoring	:	M	
Commercial Vehicle Administrative Processes		M	
Hazardous Material incident Management		M_	
Commercial Fleet Management		M	
Emergency Notificaiton and Personal Security		M	
Emergency Vehicle Management		M	
Longitudinal Collision Avoidance		L	
Lateral Collision Avoidance		L	
Intersection Collision Avoidance		L	
Vision Enhancement for Crash Avoidance		L	
Safety Readiness		M	
Pre-Crash Restraint Deployment		L	
Automated Vehicle Ooeration		L	

PROBLEM: Congestion on arterials/collectors (through multiple jurisdictions)

SYSTEM OBJECTIVES: Improve system operation and coordination between jurisdictions

USER SERVICES: 1. Traffic control

2. Route guidance

En-route travel information
 Incident management
 Pre-trip travel information
 Ride matching and reservation

7. Travel demand management

USER SERVICE
OBJECTIVES:

1. Increase level of service
Reduce travel time / delay

3. Decrease accidents4. Reduce user costs

5. Reduce vehicle emissions, (starts/stops)

6. Reduce congestion index

PERFORMANCE 1. Level of Service

CRITERIA:

2. Average travel time, delay (sec/vehicle)

3. Number of stops and duration (sec/vehicle)

CO<sub>2</sub> and No<sub>x</sub> levels (parts/m)
 Accident rates (acc/mvm)

6. Cost of time and operations (cost/veh)

TRANSPORTATION PROBLEMS: Congestion due to lack of motorist Information			
and guidance			:
1	i e	SOMEWHAT	
USER SERVICE		APPLICABLE :	APPLICABLE
Pm-Trip Travel Information	S		
En-Route Travel Information	S		
Route Guidance	<sub>l</sub> S		
Ride Matching and Reservation		S	
Traveler Services Information	S		
Traffic Control		S	
Incident Management		S	
Travel Demand Management		S	
Public Transportation Management		M	
En-Route Transit Information	М		
Personalized Public Transit		M	
Public Travel Security		M	
Electronic Payment Services		М	
Commercial Vehicle Electronic Clearance		М	
Automated Roadside Safety Inspection		M	
Onboard Safety Monitoring		М	
Commercial Vehicle Administrative Processes		M	
Hazardous Material Incident Management		M	
Commercial Fleet Management		М	
Emergency Notificaiton and Personal Security	M		
Emergency Vehicle Management		M	
Longitudinal Collision Avoidance	L		
Lateral Collision Avoidance	L		
Intersection Collision Avoidance	L		
Vision Enhancement for Crash Avoidance	L		
Safety Readiness	M		
Pre-Crash Restraint Deployment		L	
Automated Vehicle Operation		L	

PROBLEM: Congestion due to lack of motorists (commuter, tourists,

commercial vehicle) information and guidance

SYSTEM OBJECTIVES: Improve motorists advisory and information facilities/services

USER SERVICES/ TRAVEL DEMAND MANAGEMENT: 1. Traveler service information

2. Pre-trip travel information

3. En-route travel information

4. Route guidance

5. En-route transit information

6. Emergency notification and personal security

7. Longitudinal collision avoidance 8. Lateral collision avoidance

Intersection collision avoidance

10. Vision enhancement for crash avoidance

11. Safety readiness

USER SERVICE OBJECTIVES:

1. Inform drivers on roadway conditions, incidents, alternative routes, delays and parking availability.

2. Guide motorist to alternate routes, special events, parking lots/ area, exits, public buildings, shopping areas, restaurants, auto maintenance facilities, airports, military bases, train stations

and other facilities

PERFORMANCE CRITERIA:

1. Average delay due to lack of sufficient information - sec/veh

2. Decrease in ADT

3. Cost savings to motorists (user) (time, fuel) cost/veh

TRANSPORTATION PROBLEMS: Congestion due to incidents				
USER SERVICE	VERY	SOMEWHAT APPLICABLE		
Pre-Trip Travel Information		S		
En-Route Travel Information		S		
Route Guidance	S			
Ride Matching and Reservation		S		
Traveler Services Information		S		
Traffic Control		S		
Incident Management	S			
Travel Demand Management		S		
Public Transportation Management		М		
En-Route Transit Information		М		
Personalized Public Transit		M		
Public Travel Security		М		
Electronic Payment Services		М		
Commercial Vehicle Electronic Clearance		М		
Automated Roadside Safety Inspection		M		
Onboard Safety Monitoring		М		
Commercial Vehicle Administrative Processes		М		
Hazardous Material Incident Management	M			
Commercial Fleet Management	M			
Emergency Notificaiton and Personal Security	M			
Emergency Vehicle Management	M			
Longitudinal Collision Avoidance		L		
Lateral Collision Avoidance		L		
Intersection Collision Avoidance		L		
Vision Enhancement for Crash Avoidance		L		
Safety Readiness		М		
Pre-Crash Restraint Deployment		L		
Automated Vehicle Operation		L		

PROBLEM: Congestion due to incidents

SYSTEM OBJECTIVES: Reduce impact of incidents

USER SERVICES: 1. Incident management

2. Emergency vehicle management

3. Emergency notification and personal safety

4. Route guidance

5. Commercial fleet management

6. Hazardous material incident management

USER SERVICE OBJECTIVES: 1. Reduce incident duration

2. Divert drivers away from incidents to alternate routes or modes.

Postpone or eliminate trips if feasible

3. Route drivers to proper detour / alternate routes

PERFORMANCE CRITERIA:

 Average detection time Average response time Average removal time

2. Travel time / delay before and after incident - (set-veh)

3. Accident rate decrease (acc/mum)

TRANSPORTATION PROBLEMS! Underused mass transportation facilities (all modes)				
USER SERVICE	VERY	SOMEWHAT APPLICABLE	NOT APPLICABLE	
Pre-Trip Travel Information	S			
En-Route Travel Information		S		
Route Guidance		S		
Ride Matching and Reservation		S		
Traveler Services Information		S		
Traffic Control		S		
Incident Management		S		
Travel Demand Management	S			
Public Transportation Management	M			
En-Route Transit Information	М			
Personalized Public Transit	М			
Public Travel Security	М			
Electronic Payment Services	M			
Commercial Vehicle Electronic Clearance		М		
Automated Roadside Safety Inspection			Χ	
Onboard Safety Monitoring		М		
Commercial Vehicle Administrative Processes			Χ	
Hazardous Material Incident Management	1	M		
Commercial Fleet Management		M		
Emergency Notification and Personal Security		М		
Emergency Vehicle Management		М		
Longitudinal Collision Avoidance		L		
Lateral Collision Avoidance		L		
Intersection Collision Avoidance		L		
Vision Enhancement for Crash Avoidance		L		
Safety Readiness		М		
Pre-Crash Restraint Deployment		L		
Automated Vehicle Operation		L		

#### USER SERVICE OBJECTIVES /

#### PERFORMANCE CRITERIA

Underused mass transportation facilities (all\_alternative modes) PROBLEM:

Increase use of mass transportation as alternative to automobile SYSTEM OBJECTIVES:

**USER SERVICES:** 1. Public transportation management

> 2. Travel demand management 3. En-route transit information 4. Personalized public transit

5. Public travel security

6. Electronic payment services

7. Pm-trip travel information

1. Increase use of existing transit buses 2. Provide transit routes where desired

3. Increase transit usage during roadway peak hour demand

4. Provide desired service time, location, duration of trip transit headways, mode of travel alternatives (fixed rail, ride-share,

vanpool, carpool, HOV lanes, bus priority lanes)

5. Provide secure, safety facilities 6. Make payment quick and easy

1. Transit ridership increase **PERFORMANCE** 2. Person trips by mode changes CRITERIA:

3. ADT on roadways, percent reduction (lowering)

4. Survey riders

5. Payment times/delay reduction (sec/veh)

#### USER SERVICE OBJECTIVES:

TRANSPORTATION PROBLEMS: Non-attainment of air quality			
	VERY	SOMEWHAT	NOT
USER SERVICE	APPLICABLE	APPLICABLE	APPLICABLE
Pre-Trip Travel Information	l S		
En-Route Travel Information		S	
Route Guidance		S	
Ride Matching and Reservation	S		
Traveler Services Information		S	
Traffic Control	S		
Incident Management	S		
Travel Demand Management	S		
Public Transportation Management	M		
En-Route Transit Information		M	
Personalized Public Transit		M	
Public Travel Security		М	
Electronic Payment Services		М	
Commercial Vehicle Electronic Clearance		М	
Automated Roadside Safety Inspection		М	
Onboard Safety Monitoring		М	
Commercial Vehicle Administrative Processes		М	
Hazardous Material Incident Management		М	
Commercial Fleet Management	M		
Emergency Notificaiton and Personal Security		М	
Emergency Vehicle Management		M	
Longitudinal Collision Avoidance		L	
Lateral Collision Avoidance		L	
Intersection Collision Avoidance		L	
Vision Enhancement for Crash Avoidance		L	
Safety Readiness		M	
Pre-Crash Restraint Deployment		L	
Automated Vehicle Operation		L	

PROBLEM:

Non-attainment of air quality

SYSTEM OBJECTIVES:

Attainment of air quality standards. Maintain air quality attainment

**USER SERVICES:** 

1. Travel demand management

2. Incident management

3. Public transportation management4. Ride matching and reservations

5. Traffic control

6. Pm-trip travel information

7. Commercial fleet management

USER SERVICE OBJECTIVES:

1. Reduces traffic on roadways

2. Reduce length and amount of trips

3. Reduce idling time

4. Reduce number of start ups

5. Increase transit usage6. Increase auto occupancy

7. Reduce delay/travel time

PERFORMANCE

1. Vehicle emission level

CRITERIA: 2. Reduction of CO<sub>2</sub>, NO, from air (ppm)

3. Average daily transit ridership

TRANSPORTATION PROBLEMS: Congestion and accidents due to roadway' construction				
USER SERVICE	VERY	SOMEWHAT APPLICABLE		
Pre-Trip Travel Information	S			
En-Route Travel Information	S			
Route Guidance	S			
Ride Matching and Reservation		S		
Traveler Services Information	S			
Traffic Control	S			
Incident Management	S			
Travel Demand Management		S		
Public Transportation Management		M		
En-Route Transit Information		М		
Personalized Public Transit		M		
Public Travel Security		M		
Electronic Payment Services		М		
Commercial Vehicle Electronic Clearance		M		
Automated Roadside Safety Inspection		М		
Onboard Safety Monitoring		M		
Commercial Vehicle Administrative Processes		М		
Hazardous Material Incident Management		М		
Commercial Fleet Management		М		
Emergency Notification and Personal Security		M		
Emergency Vehicle Management		М		
Longitudinal Collision Avoidance	L			
Lateral Collision Avoidance	L			
Intersection Collision Avoidance		L		
Vision Enhancement for Crash Avoidance		L		
Safety Readiness		M		
Pre-Crash Restraint Deployment		L		
Automated Vehicle Operation		L		

PROBLEM: Congestion and accidents due to roadway construction

SYSTEM OBJECTIVES: Reduce impact of congestion, improve motorist information

services and guidance, reduce accidents related to vehicles and

workers.

USER SERVICES 1. Pre-trip travel information

2. En-route travel information

3. Route guidance

4. Traveler services information

5. Incident management

6. Traffic control

7. Longitudinal collision avoidance

8. Lateral collision avoidance

USER SERVICE OBJECTIVES:

 Inform drivers on construction areas / locations and expected delay

2. Inform drivers on alternate routes

3. Guide drivers to alternate/detour routes

4. Inform/guide drivers that are planning trips through area of

locations, alternate routes and detours

PERFORMANCE CRITERIA:

1. Average delay time (sec/veh)

2. Alternate route traffic increase

3. Emission reduction (PPM)

4. Cost savings to motorists (time, fuel) (cost/veh)

TRANSPORTATION PROBLEMS: Congestion due to <b>lack</b> of capacity on			
reew	freeways, ramps, and intersections		
LIAND ANDVIAN		SOMEWHAT	
USER SERVICE		APPLICABLE	APPLICABLE
Pre-Trip Travel Information	S		
En-Route Travel Information	S		
Route Guidance	S		
Ride Matching and Reservation	S		
Traveler Services Information	S		
Traffic Control	S		
Incident Management	S		
Travel Demand Management	S		
Public Transportation Management	M		
En-Route Transit Information		M	
Personalized Public Transit		M	
Public Travel Security		M	
Electronic Payment Services		M	
Commercial Vehicle Electronic Clearance		M	
Automated Roadside Safety Inspection		M	
Onboard Safety Monitoring		M	
Commercial Vehicle Administrative Processes		M	
Hazardous Material Incident Management		M	
Commercial Fleet Management	M		
Emergency Notificaiton and Personal Security		M	
Emergency Vehicle Management		М	
Longitudinal Collision Avoidance		L	
Lateral Collision Avoidance		L	
Intersection Collision Avoidance		L	
Vision Enhancement for Crash Avoidance		L	_
Safety Readiness		M	
Pre-Crash Restraint Deployment		L	
Automated Vehicle Operation		L	

PROBLEM:

Congestion due to lack of capacity on freeways, ramps, and

interchanges

SYSTEM OBJECTIVES:

Improve system performance

**USER SERVICES:** 

1. Incident management

2. Route guidance

3. Pre-trip travel information

4. Traffic control

Traveler services information
 Travel demand management
 Ride matching and reservation
 Public transportation management
 Commercial fleet management
 En-route travel information

11. Construct additional lanes/facilities

USER SERVICE OBJECTIVES:

1. Reduce average delay time

2. Reduce ADT

3. Reduce peak hour volumes

4. Reduce trucks in through lanes or on grades

5. Increase transit ridership6. Restrict lanes from CBD7. Reduce accident rates

PERFORMANCE

CRITERIA:

1. Average delay time (set-veh)

2. Increase average speeds (mph)

3. Truck volume in CBD (%)

4. Accident rates (ACC/MVM)

5. Level of service/congestion index

TRANSPORTATION PROBLEMS: Congestion and accidents due to improper					
roadway planning, design, operations and					
maini	maintenance				
HOED CEDIMOE		SOMEWHAT			
USER SERVICE	APPLICABLE	APPLICABLE	APPLICABLE		
Pre-Trip Travel Information		S			
En-Route Travel Information		S			
Route Guidance	S				
Ride Matching and Reservation		S			
Traveler Services Information	S				
Traffic Control	S				
Incident Management	S				
Travel Demand Management	S				
Public Transportation Management	M				
Iln-Route Transit Information		M			
Personalized Public Transit		M			
fPublic Travel Security		M			
fElectronic Payment Services		M			
(Commercial Vehicle Electronic Clearance		M			
IAutomated Roadside Safety Inspection		M			
(Inboard Safety Monitoring		M			
(Commercial Vehicle Administrative Processes		M			
tHazardous Material Incident Management		M			
(Commercial Fleet Management	M				
IEmergency Notificaiton and Personal Security		M			
Emergency Vehicle Management		M			
1Longitudinal Collision Avoidance		L			
1Lateral Collision Avoidance		L			
Intersection Collision Avoidance		L			
Vision Enhancement for Crash Avoidance		L			
:safety Readiness		M			
FPre-crash Restraint Deployment		L			
/Automated Vehicle Ooeration					

Congestion and accidents due to improper roadway planning, PROBLEM:

design, operations and maintenance

Improve transportation system planning, design, operations and SYSTEM OBJECTIVES:

maintenance

 Traffic control **USER SERVICES:** 

OBJECTIVES:

2. Travel demand management

3. Route guidance

4. Traveler services information

5. Public Transportation Management

6. Safety readiness

7. Commercial fleet management

8. Incident management

1. Reduction in delay (sec/veh), travel time (sec/veh) **USER SERVICE** 

2. Reduction in accident rates (acc/mvm) on existing roadways

3. Reduction in VMT (veh/mile)

4. Reduction in stops/starts (number stops per vehicle mile)

5. Reduction in emissions (parts/m)

PERFORMANCE 1. Average vehicle delay (sec/veh) CRITERIA:

2. Average travel time (sec/veh)

3. Total VMT (system-wide)4. Total stops/delay (no. stops/veh/mile)

5. CO<sub>2</sub> and NO<sub>2</sub> parts per million-system wide-(tons)

TRANSPORTATION PROBLEMS: Congestion due to lack of planning and opera- tions for special events			
USER SERVICE	VERY	SOMEWHAT APPLICABLE	NOT APPLICABLE
Pre-Trip Travel Information	S		
En-Route Travel Information	S		
Route Guidance	S		
Ride Matching and Reservation		S	
Traveler Services Information	S		
Traffic Control	S		
Incident Management	S		
Travel Demand Management	S		
Public Transportation Management	М		
En-Route Transit Information		М	
Personalized Public Transit		М	
Public Travel Security		М	
Electronic Payment Services			Χ
Commercial Vehicle Electronic Clearance			Χ
Automated Roadside Safety Inspection			Χ
Onboard Safety Monitoring			Χ
Commercial Vehicle Administrative Processes			Χ
Hazardous Material Incident Management		М	
Commercial fleet Management		М	
Emergency Notificaiton and Personal Security		М	
Emergency Vehicle Management		М	
Longitudinal Collision Avoidance		L	
Lateral Collision Avoidance		L	
Intersection Collision Avoidance		L	
Vision Enhancement for Crash Avoidance		L	
Safety Readiness		М	
Pre-Crash Restraint Deployment		L	
Automated Vehicle Operation		L	

PROBLEM: Congestion due to lack of planning and operations for special

events

SYSTEM OBJECTIVES: Reduce the impact of congestion on roadway

USER SERVICES: 1. Incident management

Pre-trip travel information
 En-route travel information

4. Route guidance

5. Traveler services information

6. Traffic control

7. Public Transportation management

8. Travel demand management

USER SERVICE OBJECTIVES:

1. Reduction in delay/travel time (sec-veh)

2. Reduction in accidents/incidents

3. Reduction in VMT

4. Reduction in vehicle emissions

PERFORMANCE CRITERIA:

1. Average vehicle delay (sec/veh)

Average travel time

3. Total VMT

4. CO<sub>2</sub> and NO<sub>X</sub> parts/million reduction

TRANSPORTATION PROBLEMS: Congestion and accidents due to motorist lack of education/improper habits and

lack of traffic law enforcement and regulations SOMEWHAT **USER SERVICE** APPLICABLE APPLICABLE APPLICABLE S Pre-Trip Travel Information S En-Route Travel Information Route Guidance S Ride Matching and Reservation **Fraveler Services Information** S Fraffic Control S ncident Management S Fravel Demand Management S М Public Transportation Management En-Route Transit Information M Personalized Public Transit М Public Travel Security Χ Electronic Payment Services Х Commercial Vehicle Electronic Clearance Χ Automated Roadside Safety Inspection X On--board Safety Monitoring X Commercial Vehicle Administrative Processes lazardous Material Incident Management М Commercial Fleet Management M Emergency Notification and Personal Security М Emergency Vehicle Management М ongitudinal Collision Avoidance L ateral Collision Avoidance L ntersection Collision Avoidance 1 Vision Enhancement for Crash Avoidance L Safety Readiness М Pre-Crash Restraint Deployment **Automated Vehicle Operation** 

PROBLEM: Congestion and accidents due to motorists' lack of education/

improper driving habits and lack of traffic law enforcement and

regulations

SYSTEM OBJECTIVES: Reduce congestion and accidents through user education and

traffic law enforcement and enactment of laws

USER SERVICES: 1. Pre-trip travel information

2. En-route travel information

3. Route guidance

4. Travel services information

5. Traffic control

6. Incident management

7. Travel demand management

8. Public transportation management

USER SERVICE OBJECTIVES:

1. Inclusion of public/user education on proper driving techniques and laws in each user service

2. Inclusion of traffic law enforcement officials training at each

user service

3. Review of laws affecting each user service that would result in

enhancement of user schedule

PERFORMANCE CRITERIA:

1. Average system delay sec/veh

2. Total system travel time/stops (sec/veh)

3. Accident rates acc/mvm and accident types

4. Average user cost (cost/veh)

TRANSPORTATION PROBLEMS: Congestion due to lack of alternative routes and access to major public/private commercia developments			
USER SERVICE	VERY APPLICABLE	SOMEWHAT APPLICABLE	
Pre-Trip Travel Information	S		
En-Route Travel Information		S	
Route Guidance	S		
Ride Matching and Reservation	S		
Traveler Services Information		S	
Traffic Control	S		
Incident Management	S		
Travel Demand Management	S		
Public Transportation Management	M		
En-Route Transit Information		M	
Personalized Public Transit		M	
Public Travel Security		M	
Electronic Payment Services			X
Commercial Vehicle Electronic Clearance			X
Automated Roadside Safety Inspection			X
Onboard Safety Monitoring			X
Commercial Vehicle Administrative Processes			X
Hazardous Material Incident Management			X
Commercial Fleet Management			X
Emergency Notificaiton and Personal Security		M	
Emergency Vehicle Management		M	
Longitudinal Collision Avoidance		L	
Lateral Collision Avoidance		L	
Intersection Collision Avoidance		L	
Vision Enhancement for Crash Avoidance	<u> </u>	<u> </u>	
Safety Readiness		M	
Pre-Crash Restraint Deployment		L	
Automated Vehicle Operation		<u>L</u>	1

PROBLEM: Congestion due to lack of alternative routes and access to major

public/private commercial development

SYSTEM OBJECTIVES: Reduction in congestion

USER SERVICES:
1. Pre-travel travel
2. Route guidance

3. Ridematching and reservation

4. Traffic control

5. Incident management

6. Travel demand management

7. Public transportation management

USER SERVICE OBJECTIVES:

1. Reduce congestion by reducing demand and trips on existing facilities

2. Reduce congestion through enhanced operation

3. Reduce impact of incidents through management of incidents and measures to reduce accidents

4. Reduce congestion by providing the user with more choices

that are efficient, safe, and, responsive

PERFORMANCE CRITERIA:

1. Average system delay (sec/veh)

2. Average system decrease in travel time (sec/veh) (stops/veh)

3. Accident rates (acc/mvm)

4. Ridership (mass transit)

TRANSPORTATION PROBLEMS: Congestion due to lack of policies, planning, design and operations for truck and commercial vehicle traffic			
USER SERVICE	VERY	SOMEWHAT APPLICABLE	NOT APPLICABLE
Pre-Trip Travel Information	ALLEGADED	AFFEROADEL	X
En-Route Travel Information		S	
Route Guidance	S		
Ride Matching and Reservation		S	
Traveler Services Information		S	<del></del>
Traffic Control	S		X
Incident Management			X
Travel Demand Management			X
Public Transportation Management			X
En-Route Transit Information			X
Personalized Public Transit			X
Public Travel Security			X
Electronic Payment Services		Μ	W. 11 A 1
Commercial Vehicle Electronic Clearance	M		
Automated Roadside Safety Inspection		М	
Onboard Safety Monitoring		М	
Commercial Vehicle Administrative Processes	М		
Hazardous Material Incident Management		М	
Commercial Fleet Management	М		
Emergency Notificaiton and Personal Security		M	
Emergency Vehicle Management			X
Longitudinal Collision Avoidance		L	
Lateral Collision Avoidance		L -	
Intersection Collision Avoidance		L	
Vision Enhancement for Crash Avoidance		L	
Safety Readiness		M	
Pre-Crash Restraint Deployment		L	
Automated Vehicle Operation		L	

PROBLEM: Congestion due to lack of policies, planning, design and

operations for truck and commercial vehicle traffic

SYSTEM OBJECTIVES: Reduce impact on congestion

USER SERVICES: 1. Commercial fleet management

2. Incident management

3. Route guidance

4. Commercial vehicle electronic clearance

5. Commercial vehicle administrative process

USER SERVICE OBJECTIVES:

 Reduction of incidents/accidents; and congestion due"to commercial vehicles

2. Reduction of truck volumes on arterial roadways

3. Increase capacity, reduciton of delay and travel time for automobiles and mass transportation vehicles

4. Increase efficiency of commercial vehicle operations

PERFORMANCE CRITERIA:

 Average vehicle delay (sec/veh) system capacity (v/c), average travel time (sec/veh)

2. Truck percentages % of ADT

3. Accident rates and types involving trucks